



TANDBERG Codian MSE 8000 Chassis



MSE 8000
Chassis

High-capacity voice and videoconferencing media services engine. This powerful, fault tolerant solution is ideal for the large scale communication needs of large enterprises and service providers requiring a high-availability, high-performance, scalable solution.

The super robust Media Service Engine 8000 is a high capacity, carrier-class, voice and video conferencing chassis and has a system supervisor, hot-swap feature blades and redundant, monitored power supplies and cooling system with the following features:

DESIGN FEATURES

- 10 hot-swappable option slots
- High definition conferencing, recording and gateway capabilities
- Redundant and hot-swappable fan trays and power supplies
- Dual 48-volt power option
- Active environmental monitoring
- High-speed backplane
- Supervisor blade for system management and configuration
- Extensive approvals and compliance

APPLICATION FEATURES

- Multiple and interchangeable functionality, including media, recording and gateway blades
- Extends the capabilities of large service providers by providing feature-rich conferencing, recording, ISDN gateway as well as system management and configuration in an all-in-one device
- Integrated with TANDBERG Management Suite (TMS)

SUPPORT CAPABILITIES*

- Up to 180 ports of HD 1080p multipoint
- Up to 720 ports of SD multipoint
- Up to 72 ISDN primary rate interfaces
- Up to 90 recording ports
- Up to 360 IP GW calls
- Up to 144 telepresence server screens
- More than 1 Gbps of conferencing bandwidth
- Wide range of protocols supported including H.323, SIP and H.320
- AES encryption
- Standards-based and compatible with all major vendors' endpoints
- Support for TANDBERG Multiway™

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SYSTEM COMPONENTS	DESCRIPTION
MSE 8000 Chassis	10-slot media services engine chassis with high-speed backplane
MSE 8010 Fan tray	Hot-swap fan tray (for use in both top and bottom slots) with environmental monitoring
MSE 8026 AC power supply	Dual-shelf PSU 100–240 VAC dual-shelf power supply bundle including two 1KW rectifiers
MSE 8022 Rectifier	Additional 1KW AC/DC rectifier module for power shelf
MSE 8050 Supervisor	Supervisor blade, required for system management and configuration

CHASSIS SOFTWARE LICENSES	DESCRIPTION
MSE 8710 SL TS screen license	Required in MSE 8000 chassis to enable one telepresence screen
MSE 8510 PL Media2 port license	Required in MSE 8000 chassis to enable one HD 720p video port and one additional audio port (or two SD videos ports and no additional audio ports) Two Media2 port licenses required to enable one HD 1080p video port
MSE 8420 PL Media port license	Required in MSE 8000 chassis to enable one SD video port (and one additional audio port when allocated to the MSE 8420)
MSE 8350 PL IP GW call license	Required in MSE 8000 chassis to enable two IP GW calls (of which one can be transcoded)
MSE 8310 PL ISDN PRI port license	Required in MSE 8000 chassis to enable one ISDN PRI port
MSE 8220 PL VCR recording port license	Required in MSE 8000 chassis to enable one VCR recording port

SOFTWARE LICENSES

Port licensing model for added flexibility
 Port licenses are purchased for the MSE 8000 Chassis to enable screen and port functionality
 Port licenses are stored in the chassis and the Supervisor can allocate licenses to slots
 Optional feature blades must be inserted into slots to utilise software licenses

CHASSIS

Fault-tolerant, high availability chassis
 10-hot swappable option slots
 Redundant power inputs and hot swappable fan trays
 Dual independent 48-volt DC power inputs
 Active environmental monitoring
 High-speed backplane and management bus

AC POWER SUPPLY

Two independent AC power shelves convert power for the two DC power inputs of the chassis
 Multiple redundant hot-swap rectifier modules per shelf
 Each rectifier has its own independent AC inlet

MSE 8050 SYSTEM SUPERVISOR

Actively monitors and manages the chassis and blades
 Hot swappable without affecting feature blade operation
 Configures blades and monitors the status of blades, fans, air filters, power feeds and AC power supply shelves
 Alert generation
 Standard telco alarm connector
 Management via built-in web server
 RS-232 for local control and diagnostics
 Syslog for diagnostics
 Configuration backup over network
 Secure upgrades through Ethernet or CompactFlash
 SNMP

ENVIRONMENTAL DATA

Operating temperature 0°C to 35°C ambient
 Relative humidity below 95% (non-condensing)

PHYSICAL DIMENSIONS

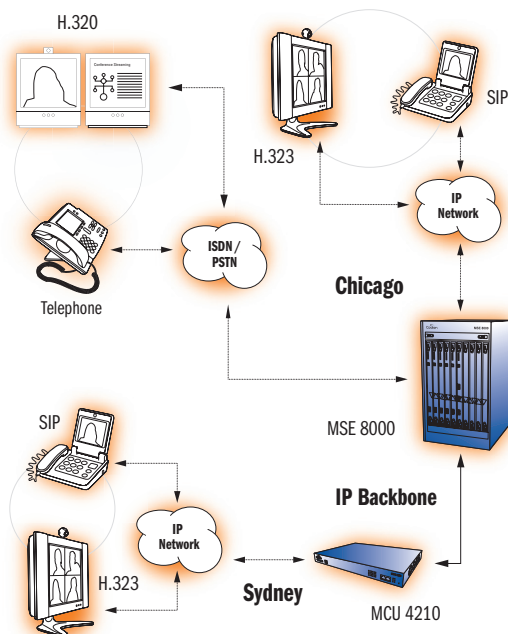
Height 33.25", 842 mm (19U)
 Width 17.2", 437 mm
 Depth 20.5", 520 mm
 19" rack mountable (kit supplied)
 Power -48 VDC, 100–240 VAC 50/60 Hz

APPROVALS AND COMPLIANCE

European safety: EN 60950-1:2001
 USA safety: UL 60950-1 First Edition
 Canada safety: CSA 60950-1-03
 CB Scheme certificate, CE Marked
 EMC: EN55022 class A, ETS EN300 386, EN61000-3-2, EN61000-3-3, EN55024: EN61000-4-2,-3,-4,-5,-6,-11, FCC Part 15 class A, VCCI class A, AS/NZS 3548 (C-Tick), CCC Approved - GB4943-2001, GB9254-1998, YD/T993-1998
 Telecoms:
 USA TIA-968-A: October 2002, 47 CFR Part 68: October 2004, Canada: IC CS-03, Issue 9, Part VI, Europe: ETS 300 046-3, Japan: Ordinance of MPT No 31, 1984, China: NAL Certificate
 RoHS compliant

OPTIONAL FEATURE BLADES

The following feature blades can be slotted into a powered MSE 8000 chassis:
 MSE 8710 Telepresence Server blade — up to 16 screens of HD telepresence conferencing
 MSE 8510 Media2 blade — up to 20 ports of HD 1080p video plus 20 ports of voice multipoint conferencing, or up to 80 ports of SD video multipoint conferencing
 MSE 8420 Media blade — up to 40 ports of SD video plus 40 ports of voice multipoint conferencing
 MSE 8350 IP GW blade — up to 20 transcoding and 20 non-transcoding video calls
 MSE 8321 ISDN GW — up to 8 E1 or T1 ISDN primary rate interfaces
 MSE 8220 VCR — up to 10 ports of video recording with streaming server
 See individual datasheets for detailed description of blades



* optional feature blades required

All specifications subject to change without notice, system specifics may vary.

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